

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000557

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61M 1/16 // B01D02903, B01D 29/56
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61M, B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5637214 A (DOV KAHANA), 10 June 1997 (10.06.1997), The whole document	1-64
A	--	65-69
A	US 2847126 A (H.F. GOODMAN), 12 August 1958 (12.08.1958), The whole document	13,16-21,36, 38-42,58-59, 62-64
A	US 3209915 A (J. GUTKOWSKI), 5 October 1965 (05.10.1965), The whole document	1-69
	--	

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

16 June 2004

Date of mailing of the international search report

05 -07- 2004

Name and mailing address of the ISA/

Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Anna Malmberg/Els
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/000557

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5566611 A (PETER SCHEUCHER ET AL), 22 October 1996 (22.10.1996), column 4, line 23 - column 6, line 5, figures 1,2, abstract --	17,38,59
A	DE 20008860 U1 (HO, KUO HSIN), 21 Sept 2000 (21.09.2000), The whole document --	1-69
A	SE 467142 B (GAMBRO AB), 1 June 1992 (01.06.1992), The whole document. --	1-69
A	WO 9729796 A1 (THE ST. HELIER NHS TRUST), 21 August 1997 (21.08.1997), page 7, line 2 - line 15, figures 1,2, abstract -----	1-69

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/04/2004

International application No.

PCT/SE 2004/000557

US	5637214	A	10/06/1997	NONE		
US	2847126	A	12/08/1958	NONE		
US	3209915	A	05/10/1965	DE	1436242 A	31/10/1968
				GB	966683 A	12/08/1964
US	5566611	A	22/10/1996	AT	99692 A	15/01/1994
				AT	398090 B	26/09/1994
				AU	4049793 A	13/12/1993
				AU	4049893 A	13/12/1993
				CA	2135756 A,C	16/11/1993
				CA	2135757 A,C	16/11/1993
				DE	4392040 C,D	15/04/1999
				DE	4392041 C,D	31/10/1996
				FI	105538 B	00/00/0000
				FI	105898 B	00/00/0000
				FI	945316 A	11/11/1994
				FI	945317 A	11/11/1994
				JP	2624895 B	25/06/1997
				JP	2637289 B	06/08/1997
				JP	7507496 T	24/08/1995
				JP	7508933 T	05/10/1995
				NO	307992 B	03/07/2000
				NO	310678 B	13/08/2001
				NO	944333 A	14/11/1994
				NO	944334 A	14/11/1994
				SE	509642 C	15/02/1999
				SE	509835 C	15/03/1999
				SE	9403808 A	07/11/1994
				SE	9403809 A	07/11/1994
				US	5515776 A	14/05/1996
				WO	9323238 A	25/11/1993
				WO	9323239 A	25/11/1993
DE	20008860	U1	21/09/2000	NONE		
SE	467142	B	01/06/1992	AT	78178 T	15/08/1992
				AU	595423 B	29/03/1990
				AU	1134788 A	11/08/1988
				BR	8800439 A	20/09/1988
				CA	1286284 A,C	16/07/1991
				DE	278100 T	27/02/1992
				DE	3780440 A,T	20/08/1992
				DE	8718135 U	30/04/1997
				EP	0278100 A,B	17/08/1988
				ES	2023079 T	01/12/1993
				JP	2753242 B	18/05/1998
				JP	63194666 A	11/08/1988
				KR	9508519 B	31/07/1995
				NO	882648 A	15/06/1988
				SE	8700461 A	07/08/1988
				SE	8702234 A	07/08/1988
				US	4784495 A	15/11/1988

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/04/2004

International application No.

PCT/SE 2004/000557

WO	9729796	A1	21/08/1997	AU	1884897	A	02/09/1997
				CA	2246455	A	21/08/1997
				EE	9800241	A	15/12/1998
				EP	0883412	A	16/12/1998
				GB	9603468	D	00/00/0000
				HU	9900948	A	28/07/1999
				JP	2001500748	T	23/01/2001
				NO	983773	A	16/10/1998
				PL	328498	A	01/02/1999
